



Installation of the Monster (937) Lowering Spring Kit

Monster 937cc Model Year 2021

Service Repair Bulletin SRV-SRB-21-060

Date: October 28, 2021
To: Dealer Principal, General Manager, Service Manager, North American Dealer Network
From: Richard Kenton, Technical Director
Eric Bradley, Technical Training and Publications Manager

Dear Dealers,

This document introduces the installation process for the new lowering spring kit for the front fork and rear shock absorber for the Monster 937cc.

This kit is designed to lower the motorcycle by 25 mm, bringing the seat height to 795 mm, without sacrificing the agility and riding pleasure.

The kit includes:

Fork Springs	Shock Absorber Spring	Side Stand
		

The time required to install the lowered spring kit is approximately



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General Notes



WARNING

Always install the complete kit. Never install the lowered springs on only one part of the suspension.



WARNING

The lowered springs located inside the front fork must be replaced at the same time as the lowered spring located inside the rear shock absorber.



WARNING

From the date of introduction of the kit, should you experience any problems with your fork or rear shock absorber, always specify on your Youtech or warranty claim whether the motorcycle is in its original configuration or has the lowered spring kit installed. For this reason, if it is equipped with the Kit, it will be necessary to attach a picture showing the part no. on the rear spring.



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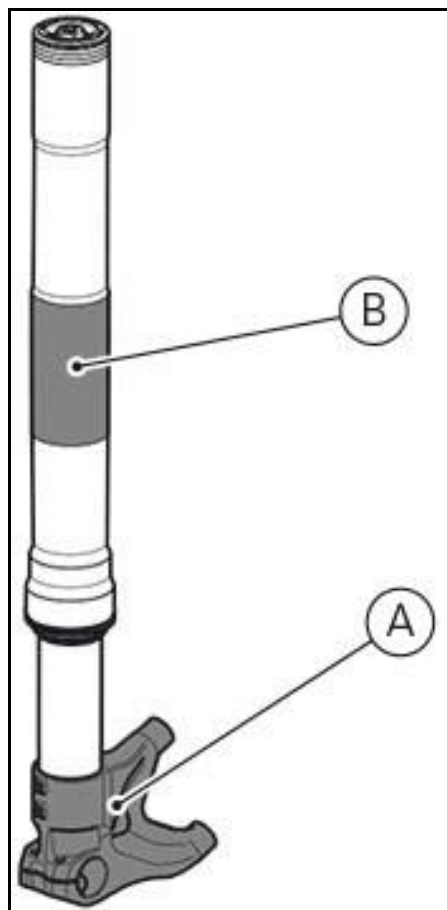
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WARNING

- Use vice only for those operations strictly requiring it
- Always use a vice with soft jaws
- Never overtighten vice
- Never vice fork parts where even a slight oval could result in part damage or suspension system malfunction

The figure shows areas (A) and (B) recommended to fasten the fork to the vice.



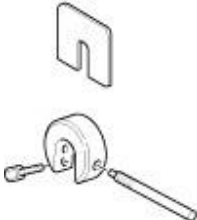


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Special Tools

Special Tool	Image
<u>Plug removal/installation tool</u> (LH fork) Part no. 88713.0029	
<u>Damper rod removing tool</u> Part no. 88713.8826	
<u>Spacer retaining tool</u> Part no. 88713.0957	
<u>Overhaul tool</u> Part no. 88713.0958	
<u>Spring hook tool</u>	



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Lowering Kit Installation

Part 1: Removing the Left Fork Spring

1. Remove both forks (See Sec. 7: "Chassis - Fork - steering head: front fork" of the Workshop Manual).
2. Carefully yet firmly clamp the fork leg (1) vertically in the vice.

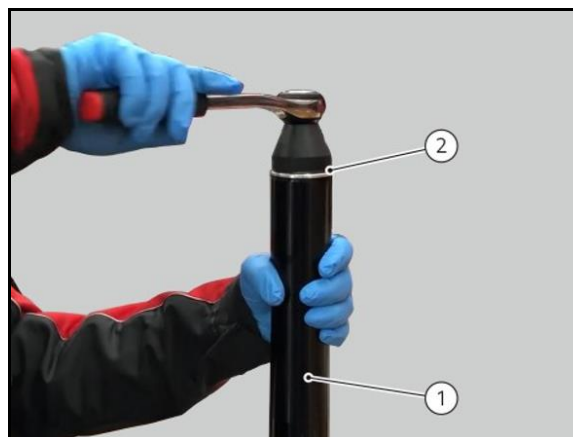
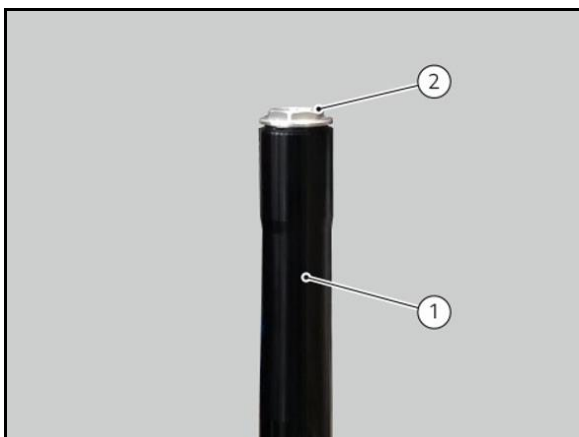


WARNING

Protect vice jaws with Teflon or other material to preserve the integrity of the sleeve surface.



3. Loosen plug (2) using tool part no. 88713.0029.
4. Lower the sleeve (1)





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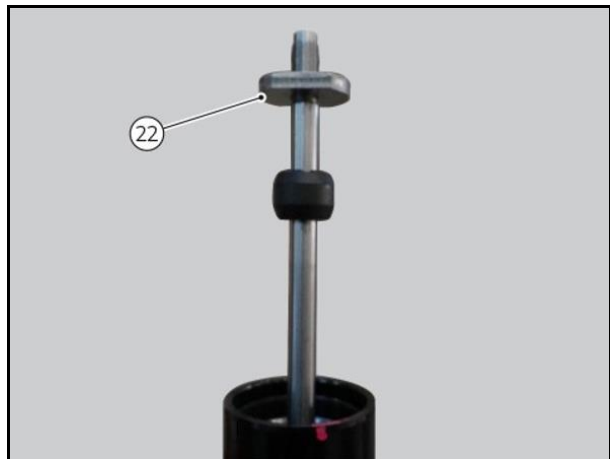
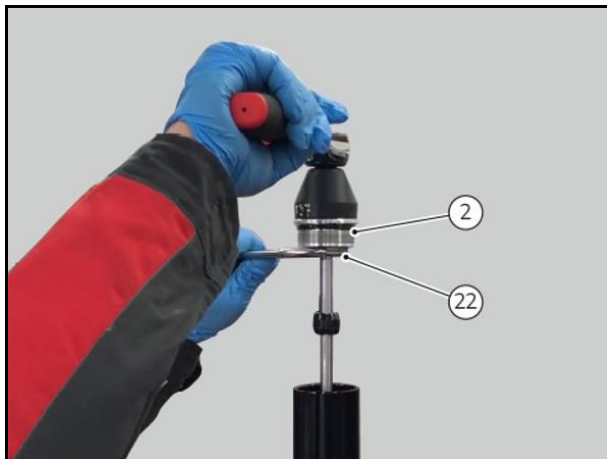
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WARNING

Be careful not to let oil flow out of the fork leg.

5. If any oil leaks out, refill to restore the exact amount (See Sec. 4: "Technical characteristics - Fuel, lubricants and other fluids" of the Workshop Manual).
6. Using **tool part no. 88713.0029**, loosen and remove the **plug (2)** while retaining the **special nut (22)**.
7. Loosen the **special nut (22)**.



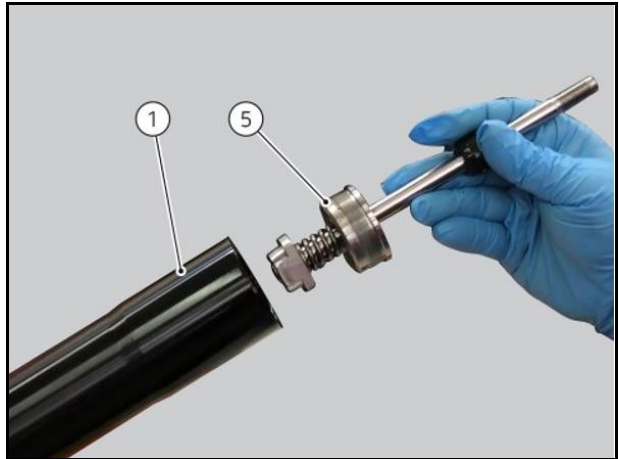
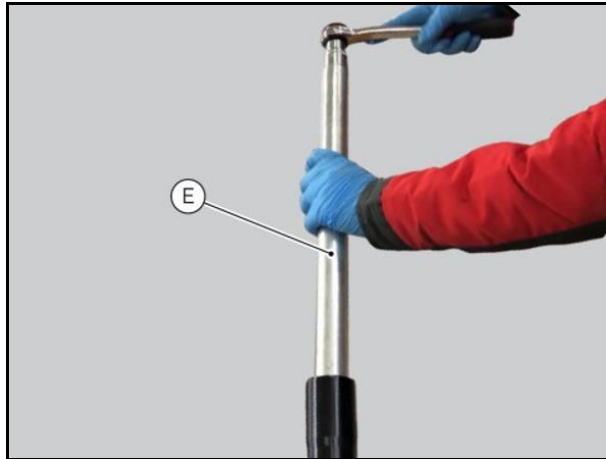


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8. Using tool part no. 88713.8826 (E), loosen and remove the damper rod assembly (5) from the sleeve (1).



9. Remove the spring (6) from the sleeve (1).





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Part 2: Refitting the LH Fork with Lowered Spring

1. Add oil to the LH leg until reaching the filling value of 585 cc.



2. Insert the **lowered spring (7)** inside the **sleeve (1)**, orienting it with the narrowest part facing upwards.



WARNING

The spring must be positioned as indicated below.



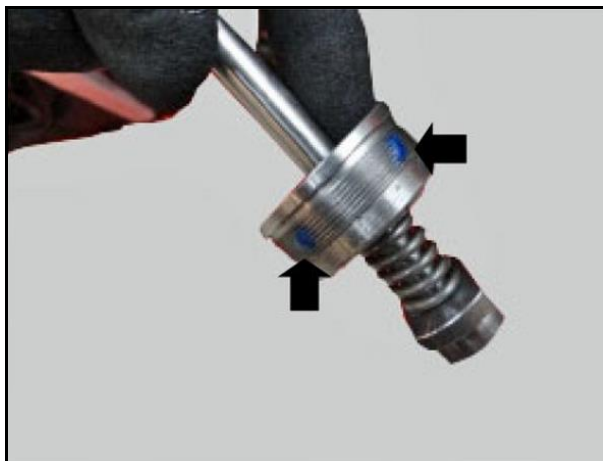


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3. Apply threadlocker: Loctite 243 on the thread of the **damper rod assembly (5)** in the positions indicated in the figure.

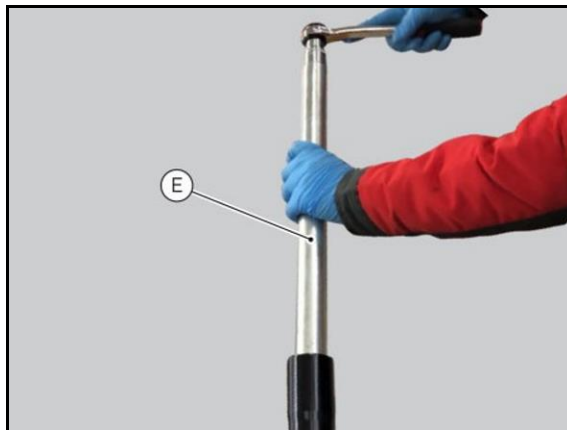
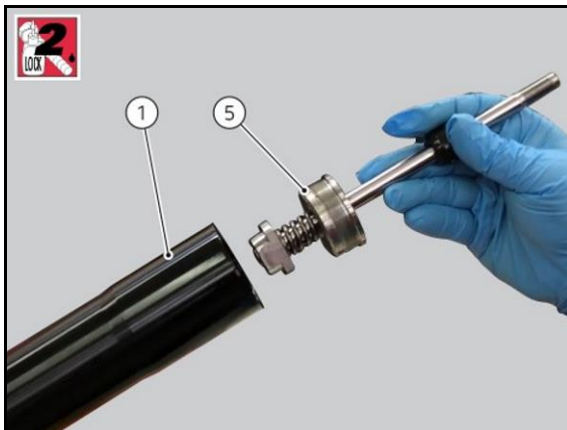


4. Using **tool (E)** part no. 88713.8826, start the **damper rod assembly (5)** in the **sleeve (1)**.
5. Tighten the **damper rod assembly (5)** to a torque of $20 \text{ Nm} \pm 10\%$.



WARNING

Apply the indicated threadlocker: Loctite 243 (or THREE BOND TB1324).



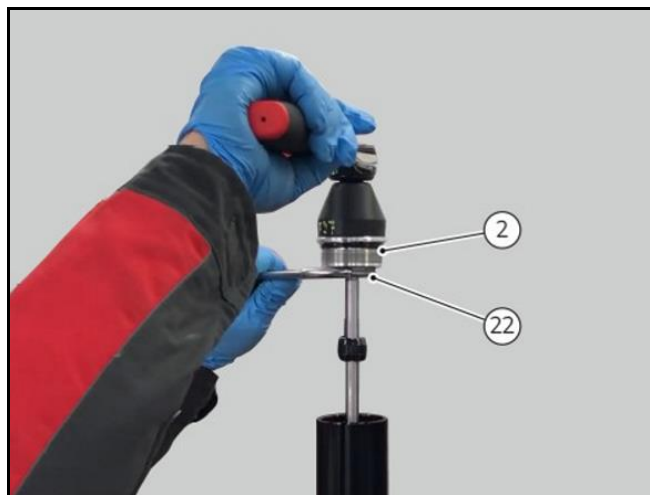
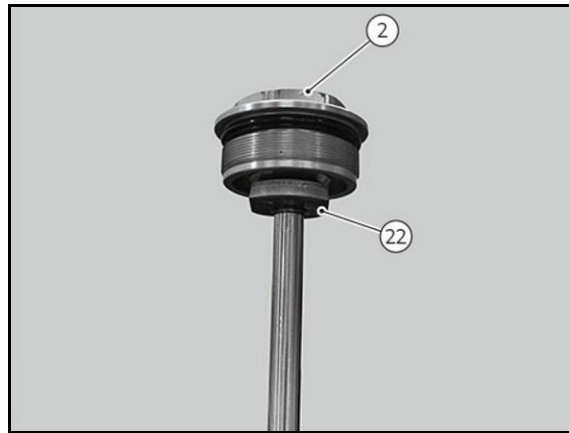
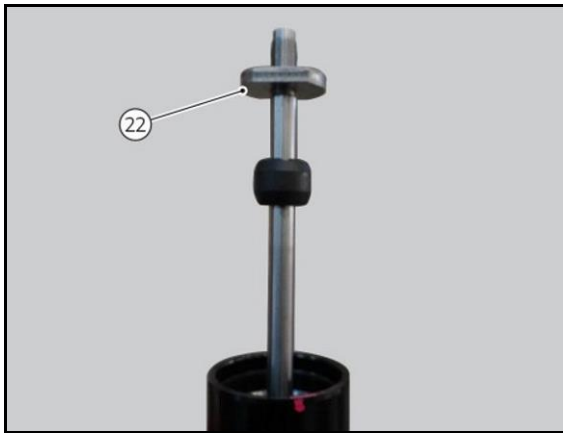


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6. Screw the **special nut (22)** onto the threaded leg of the damper rod until it is bottomed out.
7. Screw the **plug (2)** fully home on the **special nut (22)**.





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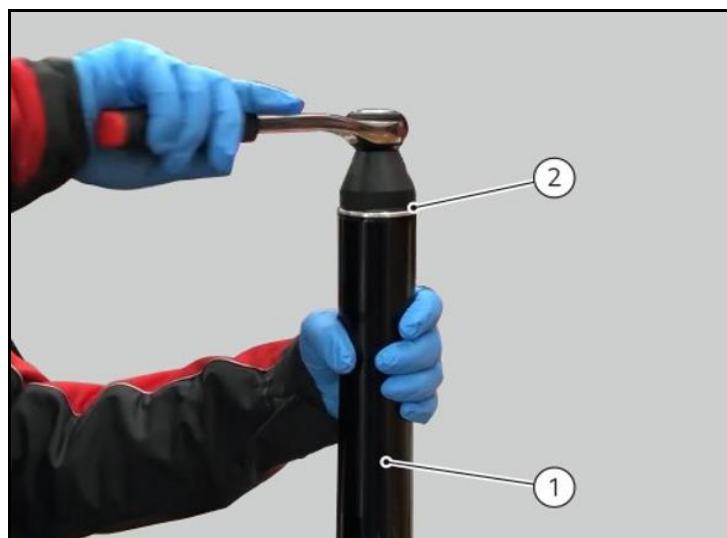
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8. Tighten **plug (2)** on **sleeve (1)**.



WARNING

Never tighten **plug (2)** with the fork leg resting on the ground in compression, tightening must always be done with the leg on the vice.



9. Use tool part no. 88713.0029 to tighten **plug (2)** to a torque of $22.5 \text{ Nm} \pm 10\%$.

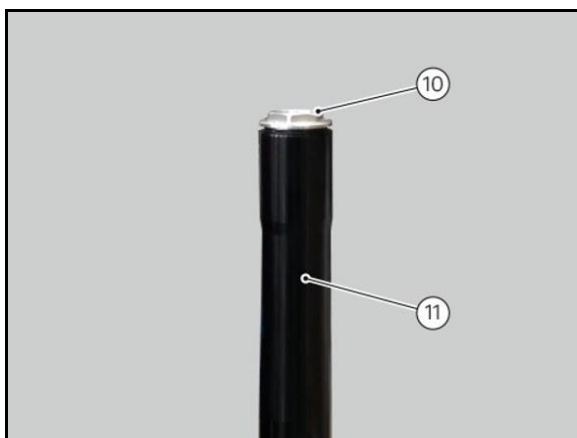
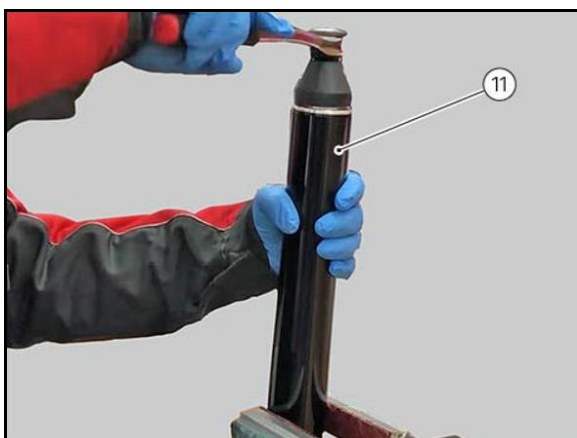
Part 3: Removing the Right Fork Spring

1. Firmly clamp the **fork leg (11)** vertically in the vice.
2. Loosen the **plug (10)** using tool part no. 88713.0029.



WARNING

Protect vice jaws with Teflon or other material to preserve the integrity of the sleeve surface.





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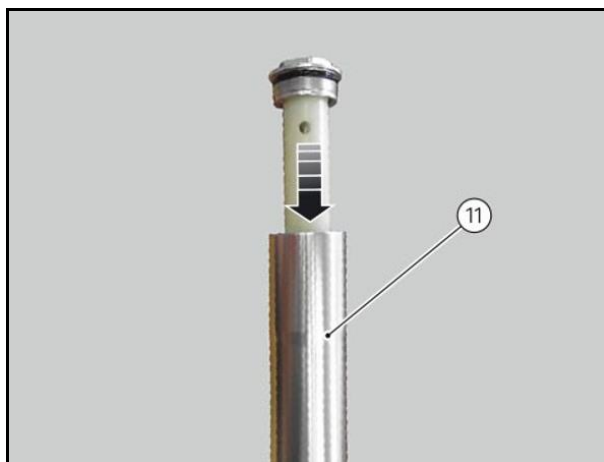
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3. Lower the **sleeve (11)** down.

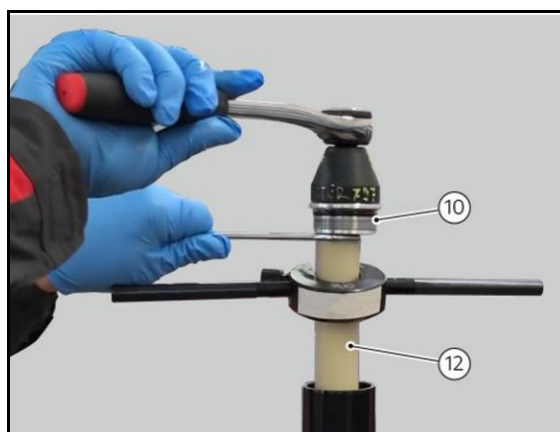
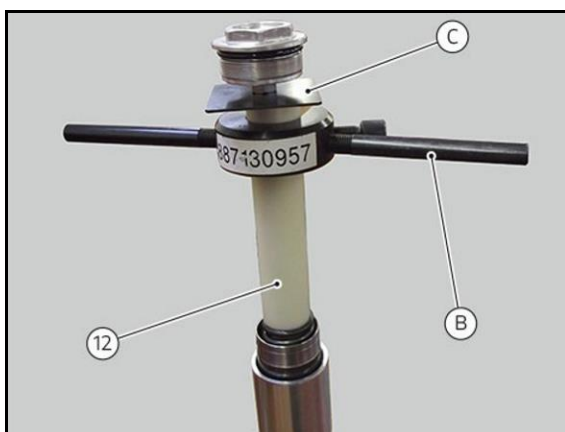


WARNING

Be careful not to let oil flow out of the fork leg.



4. If any oil leaks out, refill to restore the exact amount (See Sec. 4: "Technical characteristics - Fuel, lubricants and other fluids" of the Workshop Manual).
5. Insert **tool (B)** part no. **88713.0957** in the **preload tube (12)**. Use the tool to lower the **preload tube (12)** and insert a **spanner (C)** part no. **88713.0957** under the nut.
6. Remove the **plug (10)** using **tool part no. 88713.0029**.

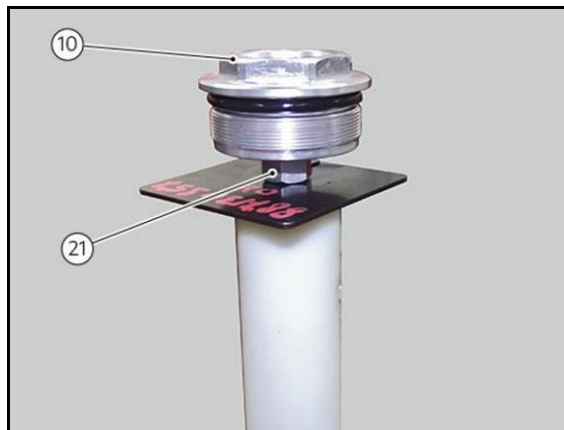




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7. Remove the spring guide pad from the sleeve.

8. Remove spring (13) from sleeve (11).



WARNING

Be careful when removing the fork plug; the preload plug could pop out because of the **spring (13)** strength.





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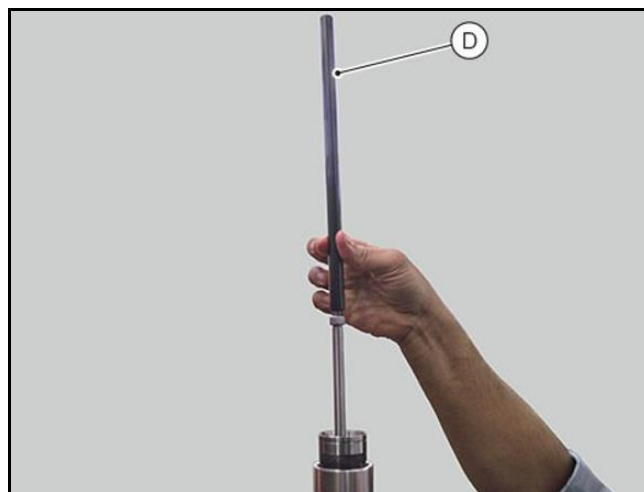
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Part 4: Refitting the RH fork with the Lowered Spring

1. Add oil to the LH leg until reaching the filling value of 523 cc.



2. Fit in the damper rod the **tool (D)** part no. 88713.0958.



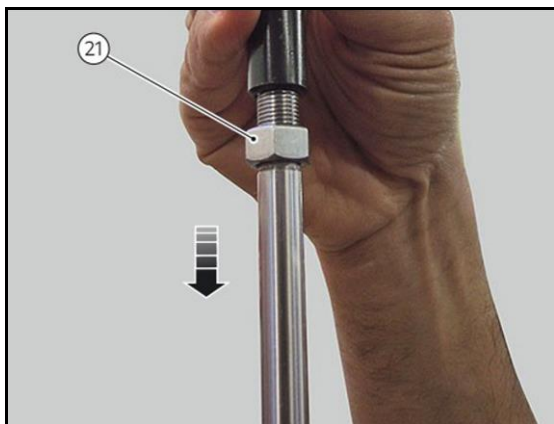


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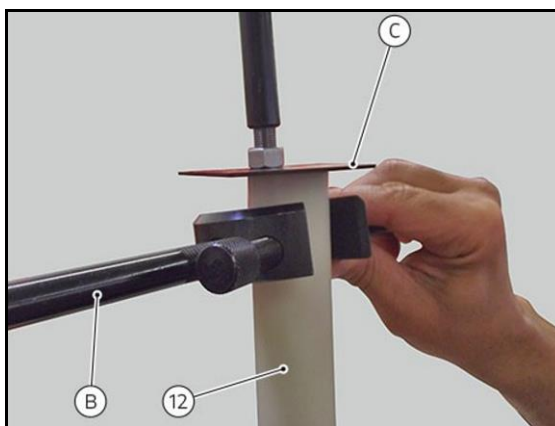
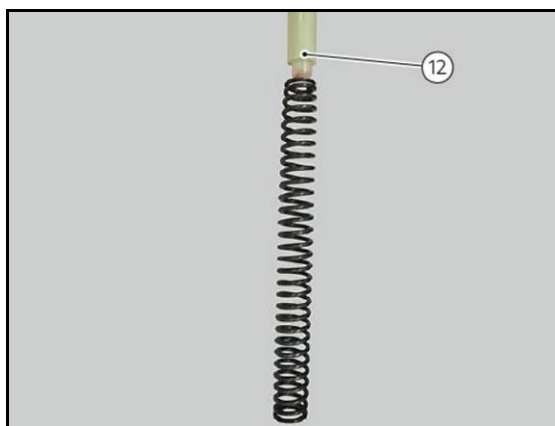
3. Bring the **nut (21)** up with the correct sized wrench to the lower stop so that the **plug (10)** can bottom out during its fitting and tightening.
4. Insert the **lowered spring (14)** inside the **sleeve (1)**, orienting it with the narrowest part facing upwards.



WARNING

The **spring (14)** must be aimed and positioned as shown.

5. Insert the **preload tube (12)** on the spring and, using the **tool (B)** part no. 88713.0957, insert a spanner so as to reach the upper part of the damper rod.





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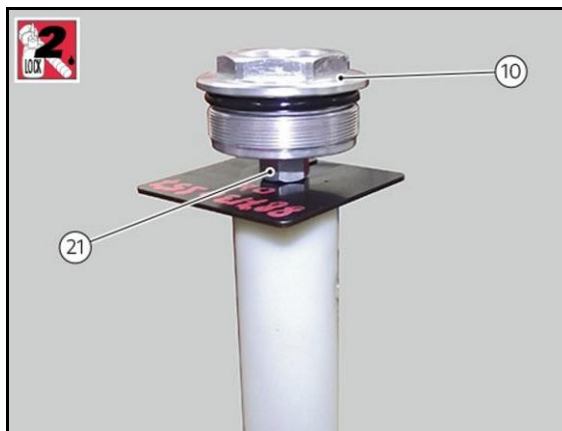
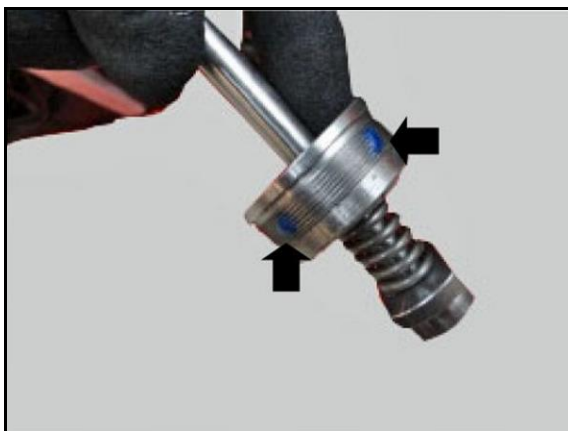
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6. Apply threadlocker: Loctite 243 on the thread of the **damper rod assembly (10)** in the positions indicated in the figure

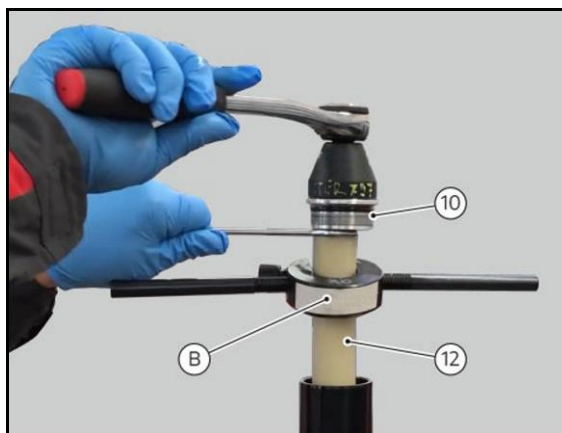
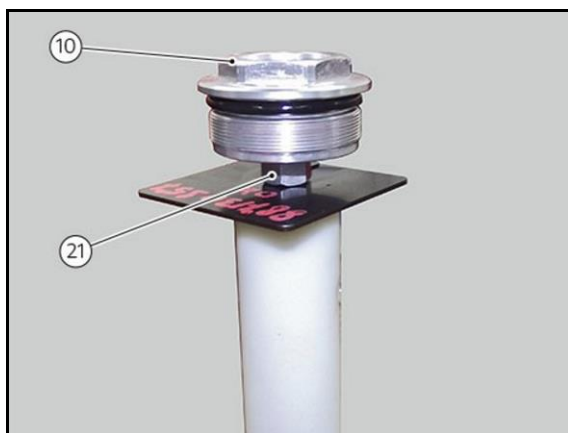


NOTE

Apply the indicated threadlocker: Loctite 243 (or THREE BOND TB1324).



7. Screw **plug (10)** until it is bottomed out.
8. Screw **nut (21)** fully home against the **plug (10)**.
9. Tighten the **nut (21)** to a torque of $15 \text{ Nm} \pm 10\%$ while holding the **plug (10)**.
10. Tighten tool **(B)** part no. 88713.0957.





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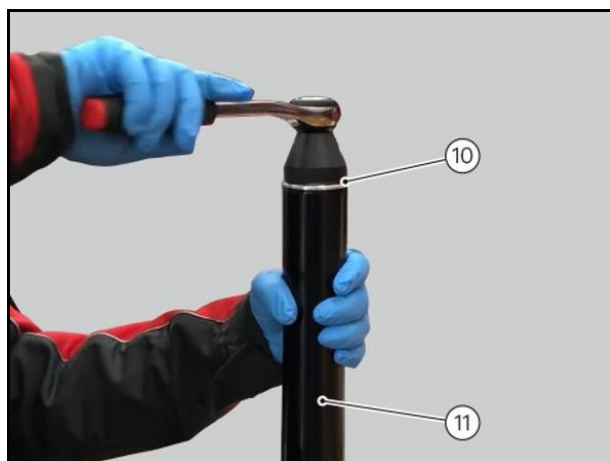
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11. Push down on **tool (B)** part no. **88713.0957** to remove spanner



12. Tighten **plug (10)** on **sleeve (11)**.

13. Use tool **part no. 88713.0029** to tighten **plug (10)** to a torque of **22.5 Nm $\pm$ 10%**.



14. Refit the right fork (See Sec. 7: "Chassis - Fork - steering head: front fork" of the Workshop Manual).



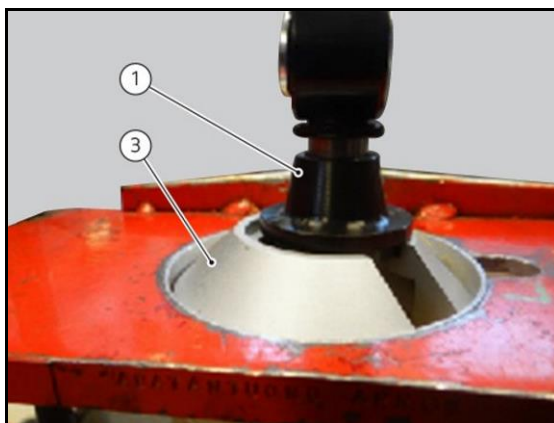
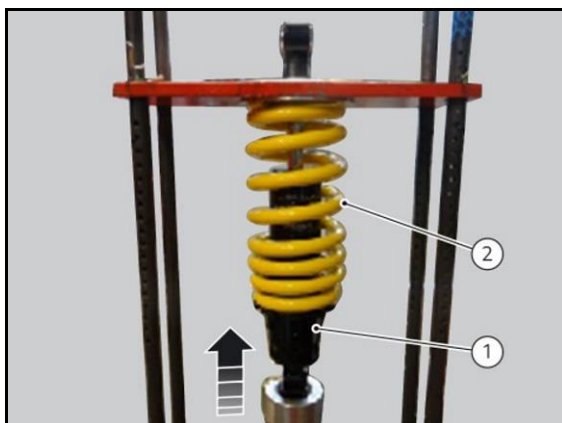
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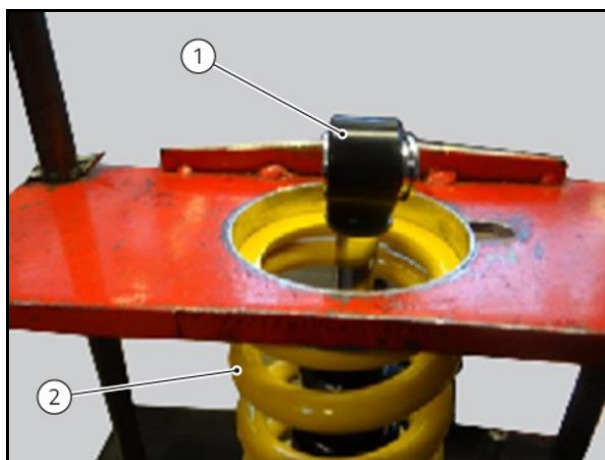
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Part 5: Removing the Rear Shock Absorber Spring

1. Remove the rear shock absorber (See Sec. 7: "Chassis – Rear shock absorber assembly" of the Workshop Manual)
2. Fit the **rear shock absorber (1)** on the special spring removal tool, and compress **spring (2)** just enough to remove **plate (3)**.
3. Remove **plate (3)** from rear shock absorber (1).



4. Decompress and remove the **spring (2)** from the rear shock absorber (1).





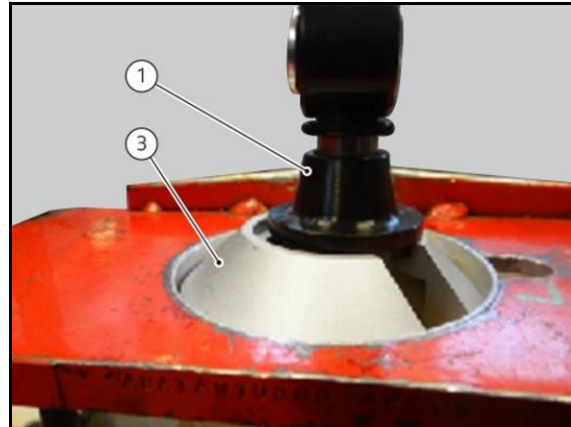
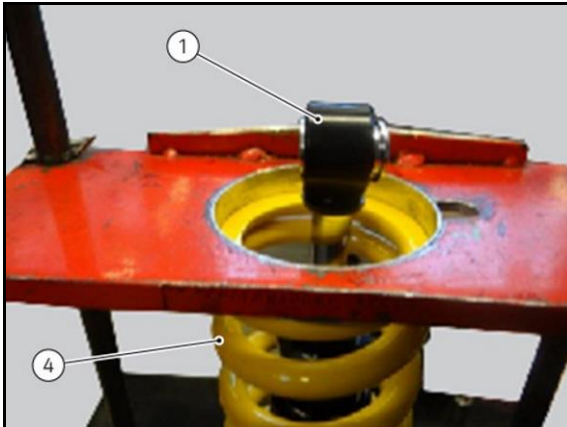
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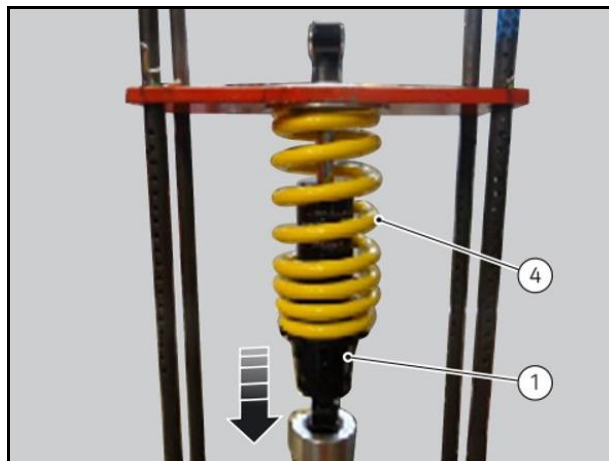
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Part 6: Fitting the Rear Shock Absorber Lowered Spring

1. Fit the **lowered spring (4)** in the **rear shock absorber (1)**.
2. Compress the **lowered spring (4)** just enough to refit the **plate (3)**.
3. Fit **plate (3)** in rear shock absorber (1).



4. Decompress the **lowered spring (4)** and remove the **rear shock absorber (1)** using the spring removal tool.



5. Refit the rear shock absorber (See Sec. 7: "Chassis – Rear shock absorber assembly" of the Workshop Manual).



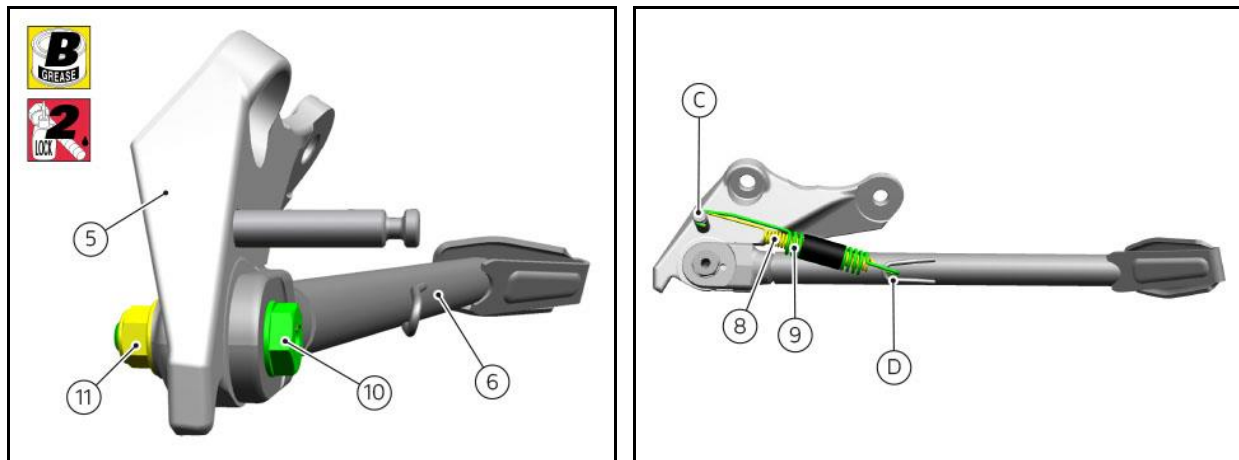
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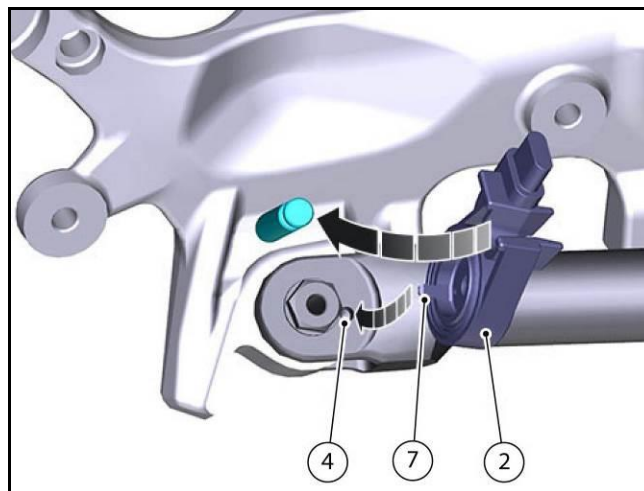
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Part 7: Lowered Side Stand Installation

1. Remove the side stand (see Sec. 7: "Chassis - Stands" of the Workshop Manual).
2. Insert the **side stand (6)** into the **side stand plate (5)**.
3. Remove any residual grease from the **shaft (10)**.
4. Apply the specified grease to the **shaft (10)** and then apply the specified threadlocker to the protrusion of the **shaft (10)**.
5. Insert and tighten the **shaft (10)** to a torque of **24 Nm $\pm$ 10%**.
6. Apply the specified threadlocker (Loctite 243 (or THREE BOND TB1324)) and tighten **nut (11)** to a torque of **24 Nm $\pm$ 10%**.
7. Position the stand return **springs (8) and (9)**, fixing them to the **pin (C)** and **hook (D)**.



8. Set **switch (2)** on the side stand with **timing pin (7)** into **hole (4)** on the stand.



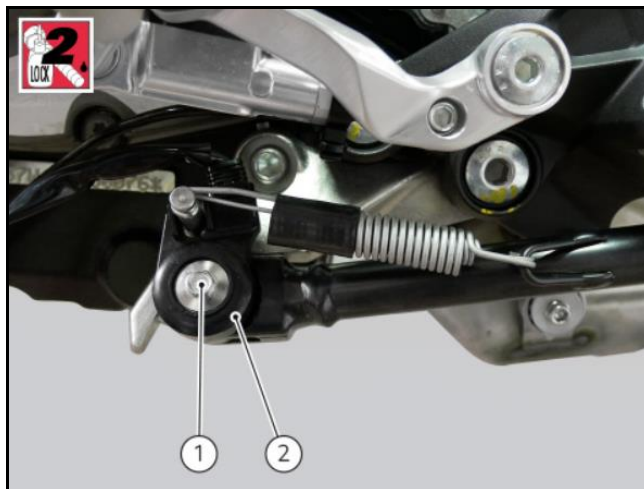


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9. Check that the pre-applied threadlocker is still present on the **screw (1)**. Otherwise, use the indicated product.
10. Tighten the **side stand sensor (2)** retaining **screw (1)** to a torque of **5 Nm $\pm$ 10%**.



11. Check that the side stand moves freely
12. Check the correct operation of the safety switch
13. Remove the rear paddock stand.

For questions about this Service Bulletin,
please contact your Service Area Manager.